

Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 of 2

**C mplete If Known**

Application Number To Be Assigned

Filing Date August 6, 2003

First Named Inventor T. Kishigami

Art Unit

Examiner Name

Attorney Docket No. MAT-8207US1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Issue Date/ Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
DP		US-5,262,789	11/16/1993	Silverstein	
		US-6,091,361	07/18/2000	Davis et al.	
		US-5,943,013	08/24/1999	Ohashi	
		US-5,299,148	03/24/1994	Gardner et al.	
		US-6,084,928	07/04/2000	Kuwahara	
		US-6,351,238	02/26/2002	Kishigami et al.	
DP		US-6,529,745	03/04/2003	Fukagawa et al.	
		US-			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
DP		EP 1 031 846 A2	08/30/2000	Matsushita Electrical Industrial Co., Ltd.	Page 1, Figs 15, 16	<input type="checkbox"/>
DP		EP 0 632 286 A2	01/04/1995	Hughes Aircraft Co.	Abstract	<input type="checkbox"/>
DP		EP 0 971 485 A1	01/12/2000	Siemens AG	Abstract	<input type="checkbox"/>
DP		WO 99 65160 A1	12/16/1999	Picciariello; Fanfoni; Spagnolini	Page 31-37	<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

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1/20/04

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<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

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Substitute for Form 1449B/PTO  <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 0;">(Use as many sheets as necessary)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Complete if Known</th> </tr> <tr> <td style="width: 50%; padding: 5px;">Application Number</td> <td style="width: 50%; padding: 5px;">To Be Assigned</td> </tr> <tr> <td style="padding: 5px;">Filing Date</td> <td style="padding: 5px;">August 8, 2003</td> </tr> <tr> <td style="padding: 5px;">First Named Inventor</td> <td style="padding: 5px;">T. Kishigami</td> </tr> <tr> <td style="padding: 5px;">Art Unit</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Examiner Name</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Attorney Docket No.</td> <td style="padding: 5px;">MAT-8207US1</td> </tr> </table>	Complete if Known		Application Number	To Be Assigned	Filing Date	August 8, 2003	First Named Inventor	T. Kishigami	Art Unit		Examiner Name		Attorney Docket No.	MAT-8207US1
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Attorney Docket No.	MAT-8207US1														

**SHEET 2 of 2**

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
DP		Schmidt, Ralph O., "Multiple Emitter Location and Signal Parameter Estimation," IEEE Trans., Vol. AP-34, No. 3, pp. 276-280 (March 1986)	<input type="checkbox"/>
↑		Wax et al., "Detection of Signals by Information Theoretic Criteria," IEEE Trans., Vol. ASSP-33, No. 2, pp. 387-392 (April 1985)	<input type="checkbox"/>
↑		Pillai et al., "Forward/Backward Spatial Smoothing Techniques For Coherent Signal Identification," IEEE Trans., Vol. 37, No. 1, pp. 8-15 (January 1989)	<input type="checkbox"/>
↑		Haardt et al., "Unitary ESPRIT: How To Obtain Increased Estimation Accuracy with a Reduced Computational Burden," IEEE Trans., Vol. 43, No. 5, pp. 1232-1242 (May 1995)	<input type="checkbox"/>
↑		Capon, J., "High-Resolution Frequency-Wavenumber Spectrum Analysis," PROCEEDINGS OF THE IEEE, Vol. 57, No. 8, pp. 1408-1418 (August 1969)	<input type="checkbox"/>
↑		Kendall, David G., "Smoothing Periodograms from Time-Series with Continuous Spectra," Nature, Vol. 161, No. 4096, pp. 686-687 (May 1948)	<input type="checkbox"/>
↓		Karimi et al., "A Novel and Efficient Solution to Block-Based Joint-Detection Using Approximate Cholesky Factorization," IEEE Trans., Vol. 3, pp. 1340-1345, 1998	<input type="checkbox"/>
DP		European Search Report for Application No. EP 01 12 9227.3, dated July 16, 2002.	<input type="checkbox"/>
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			<input type="checkbox"/>

Examiner Signature: <i>[Signature]</i>	Date Considered: 1/20/04
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